

and other penalties.

FILE 'HOME' ENTERED AT 16:20:44 ON 07 JUL 2009

=> fil reg

COST IN U.S. DOLLARS

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0.22

TOTAL SESSION

0.22

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 6 JUL 2009 HIGHEST RN 1160908-15-5 DICTIONARY FILE UPDATES: 6 JUL 2009 HIGHEST RN 1160908-15-5

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Uploading C:\Program Files\STNEXP\Queries\532523.str

chain nodes : 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

ring nodes :

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1 2 3 4 5 6 7 8 9 10 12 15 51 53
chain bonds :
15 - 16 \\ \phantom{0}15 - 17 \\ \phantom{0}18 - 19 \\ \phantom{0}19 - 20 \\ \phantom{0}20 - 21 \\ \phantom{0}22 - 23 \\ \phantom{0}23 - 24 \\ \phantom{0}25 - 26 \\ \phantom{0}26 - 27 \\ \phantom{0}28 - 29 \\ \phantom{0}29 - 30 \\ \phantom{0}30 - 31 \\ \phantom{0}
32-33 33-34 35-36 36-37
ring bonds :
1-2 1-5 1-15 1-51 2-3 2-15 3-4 3-12 3-15 4-5 4-15 5-15 5-51 6-7 6-10
6-15 7-8 7-15 7-53 8-9 8-15 8-53 9-10 9-12 9-15 10-15
exact/norm bonds :
1-2 \quad 1-5 \quad 1-15 \quad 1-51 \quad 2-3 \quad 2-15 \quad 3-4 \quad 3-12 \quad 3-15 \quad 4-5 \quad 4-15 \quad 5-15 \quad 5-51 \quad 6-7 \quad 6-10
6-15 7-8 7-15 7-53 8-9 8-15 8-53 9-10 9-12 9-15 10-15 15-16 15-17
18-19 19-20 20-21 22-23 23-24 25-26 26-27 28-29 29-30 30-31 32-33 33-34
35-36 36-37
G1:C,Si,Ge,Sn
G2:Ce,Cr,Eu,Hf,La,Mo,Nb,Nd,Pm,Pr,Sc,Sm,Ta,Ti,V,W,Y,Zr
G3:[*1-*2],[*3-*4],[*5-*6]
G4:[*7-*8],[*9-*10],[*11-*12]
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 33:CLASS 33:CLASS 35:CLASS 36:CLASS 37:CLASS
51:Atom 53:Atom
                    STRUCTURE UPLOADED
=> d his
               (FILE 'HOME' ENTERED AT 16:20:44 ON 07 JUL 2009)
              FILE 'REGISTRY' ENTERED AT 16:21:00 ON 07 JUL 2009
                                                 STRUCTURE UPLOADED
=> d 11
L1 HAS NO ANSWERS
L1
                                                 STR
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
Structure attributes must be viewed using STN Express query preparation.
=> s 11
SAMPLE SEARCH INITIATED 16:21:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -
                                                                                                                  791 TO ITERATE
                                                                                                                                                                                                          2 ANSWERS
100.0% PROCESSED
                                                           791 ITERATIONS
SEARCH TIME: 00.00.02
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                                                                          BATCH **COMPLETE**
PROJECTED ITERATIONS:
                                                                                       14133 TO 17507
                                                                                                                                 124
PROJECTED ANSWERS:
                                                                                                     2 TO
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=> s 11 full

FULL SEARCH INITIATED 16:21:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 16221 TO ITERATE

100.0% PROCESSED 16221 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.02

L3 8 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 185.88 186.10

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FILE COVERS 1907 - 7 Jul 2009 VOL 151 ISS 2
FILE LAST UPDATED: 6 Jul 2009 (20090706/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
USPIO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13/prep 7 L3 4805337 PREP/RL L4 5 L3/PREP (L3 (L) PREP/RL)

=> d 1-5 bib abs

4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:393717 CAPLUS

DN 141:207326

TI Synthesis of unsymmetrical ansa-fluorenyl metallocenes

AU Siedle, A. R.; Newmark, Richard A.; Duerr, Brook F.; Leung, Peter C.

CS Corporate Research Laboratories, 3M, St. Paul, MN, 55144-1000, USA

SO Journal of Molecular Catalysis A: Chemical (2004), 214(2), 187-198

CODEN: JMCCF2; ISSN: 1381-1169

- PB Elsevier Science B.V.
- DT Journal
- LA English
- OS CASREACT 141:207326
- AB General syntheses of unsym. ansa-fluorenyl (flu)-containing ligands of the type flu-bridge-flu' (bridge: C2H4, CH2-SiMe2, SiMe2, SiPh2) and of the corresponding [flu-bridge-flu']ZrCl2 metallocenes are described. Substituent effects in [2,7-R2-flu-C2H4-flu]ZrCl2 (R: H, t-Bu, F, Cl) on

rates of 1-octene polymerization and crystal structure of [(2,7-t-Bu2-flu)2C2H4]ZrCl2 are described.

- RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- T. 4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 2003:435278 CAPLUS
- DN 138:402396
- TΙ Tri-bound bridged metallocene catalysts for olefin polymerization
- IN Holtcamp, Matthew W.
- PA
- so U.S. Pat. Appl. Publ., 18 pp., Cont.-in-part of U.S. Ser. No. 747,821. CODEN: USXXCO
- Patent
- LA English
- FAN.CNT 2

	PATENT NO.)	DATE			APPL	DATE						
							-											
PI	US	US 20030104928			A1	20030605				US 2	20021125							
	US 20020082369			A1		2002	0627		US 2	20001222								
	US 6632770				B2	B2 20031014												
	WO	WO 2004047989			A1 20040610				WO 2		20031015							
		RW:						CZ,					FI,	FR,	GB,	GR,	HU,	ΙE,
			IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR						
PRAI	US	2000	-747	821		A2		2000	1222									
	US	2002	-304	032		A		2002	1125									

- os MARPAT 138:402396
- AB The title catalyst has a general formula CpA(A)CpBMXn, where M is a Group 3-12 metal, CpA and CpB are independently selected from (un)substituted cyclopentadienyl or indenyl ligands, X is an anion, such as halide, n = 0-3, (A) is a trivalent bridging group comprising a Group 14 element A and ≥3 linkages: ≥2 linkages between A and CpA and one linkage between A and CpB, and the linkages are selected from covalent bonds, C1-12 hydrocarbylenes and C1-12 heteroatom-containing hydrocarbylenes.
- L 4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN AN 2002:810922 CAPLUS
- DN
- 138:24805
- TI A Silvlene-Bridged (Isodicyclopentadienyl)(Fluorenyl) Complex of Zirconium for Homogeneous Olefin Polymerization
- Gentil, Sebastien; Dietz, Mirko; Pirio, Nadine; Meunier, Philippe; AU Gallucci, Judith C.; Gallou, Fabrice; Paquette, Leo A.
- Laboratoire de Synthese et Electrosynthese Organometalliques Associe au CNRS UMR 5632, Universite de Bourgogne Faculte des Sciences Gabriel, Dijon, 21000, Fr.
 - Organometallics (2002), 21(24), 5162-5166
- CODEN: ORGND7; ISSN: 0276-7333 PB American Chemical Society
- DT Journal
- LA English
- os CASREACT 138:24805
- AR The synthesis and characterization of the new dimethylsilylene(isodicyclopentadienyl)(fluorenyl)zirconium dichloride (5)

were performed. This complex was characterized by 1H and 13C NMR spectroscopy and its solid-state mol. structure was determined After activation by Me alumoxane, 5 is shown to initiate the polymerization of ethvlene

and propylene. In the latter case, s-PP (syndiotactic polypropylene) is produced. Quite unusual for a silylene-bridged Zr complex, good syndiotacticity was observed for propylene polymerization

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1999:282251 CAPLUS

DN 130:313021

ΤI Elastic polypropylenes and metallocene catalysts for their manufacture

IN Siedle, Allen R.; Misemer, David K.; Kolpe, Vasant V.; Duerr, Brook F.

PA Minnesota Mining and Manufacturing Company, USA

SO PCT Int. Appl., 69 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.						D	DATE		APPLICATION NO.						DATE				
							-													
PI	WO 9920664							1999	0429		WO 1998-US22028					19981019				
	WO 9920664			A3		1999	1118													
		W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	, BY,	CA,	CH,	CN,	CU,	CZ,	DE,		
			DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	, HR,	HU,	ID,	IL,	IS,	JP,	KE,		
			KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	, LU,	LV,	MD,	MG,	MK,	MN,	MW,		
			MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	, SG,	SI,	SK,	SL,	ТJ,	TM,	TR,		
			TT,	UA,	UG,	UZ,	VN,	YU,	ZW											
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	, AT,	BE,	CH,	CY,	DE,	DK,	ES,		
			FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,		
			CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	, TG								
	US	6265	512			B1		2001	0724		US :	1997-	9568	80		1:	9971	023		
	AU	9898	081			A		1999	0510		AU :	1998-	9808	1		13	9981	019		
	EP	1023	339			A2		2000	0802		EP 1998-952364						9981	019		
	EP 1023339				B1	2009	0304													
	R: DE, FR, GB,			GB,	ΙT															
	JP	JP 2001520283				T 20011030					JP 2000-516999						19981019			
	US 6323151				B1		2001	1127		US 1999-391541						19990908				
	KR	8085	20			B1		2008	0229		KR 2	2000-	7043	76		2	0000	422		
	US 6429274				B1		2002	0806	US 2000-654621						20000905					
	US 20010044515				A1		2001	1122		US 2001-827222						20010405				
	US 6448358					B2 20020910														
PRAI	US	1997	-956	880		A	1997	1023												
	WO 1998-US22028					W	1998	1019												

OS MARPAT 130:313021

AB A propylene polymeric composition with elastic character and soluble in ≥1 nonpolar organic solvent selected from toluene, xylene, heptane, and hexane, comprises 3-45% homotactic sequences each having only r or m diads, all of the homotactic sequences have a helical length 20-150 Å, and at 55-97% of the sum of homotactic sequences of <20 Å in helical length, each homotactic sequence having only r or m diads and having <10 repeat units with mmmm pentads 0-35%, and heterotactic sequences having r and m diads of unequal number, the polymer having a weight-average mol. weight (Mw) ≤70,000.

Metallocene catalysts of low symmetry and described as to their shape can be predictive of the stereoregular nature of the polypropylene, i.e. highly isotactic or atactic or intermediate in stereoregularity. Propylene polymerized in the presence of (2-methylbenzidine-C2H4-flu)ZrCl2 (flu = fluorenyl) to give a product having tensile strength (1000% strain) MPa 0.8, elongation 1000%, yield pt. 0.34 MPa, tensile modulus 9.9 MPa,

and shear viscosity (10 s-1) 3000 Pa s. THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 6 ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN L4 AN 1993:428284 CAPLUS
- DN 119:28284
- OREF 119:5245a,5248a
- TI ansa-Metallocene derivatives. 27. Chiral zirconocene complexes with two dimethylsilylene bridges Mengele, Winfried; Diebold, Josef; Troll, Carsten; Roell, Werner;
- Brintzinger, Hans Herbert
- CS Fak. Chem., Univ. Konstanz, Konstanz, D-7750, Germany
- SO Organometallics (1993), 12(5), 1931-5 CODEN: ORGND7; ISSN: 0276-7333
- DТ Journal
- LA English
- AB Doubly bridged zirconocene derivs. with C2 sym. disposed substituents, (Me2Si)2(3,4-dimethyl-1,2-cyclopentadienediyl)2ZrCl2 (4A) and (Me2Si)2(4,5,6,7-tetrahydro-1,2-indenediyl)2ZrCl2 (4B) were synthesized by reactions of the corresponding ligand dilithium salts with ZrCl4 in toluene; the racemic isomers were obtained by fractionated crystallization of the
 - diastereomeric product mixts. Both complexes show the expected C2-axial symmetry. In combination with methylalumoxane, 4A and 4B are slowly converted to catalysts for the polymerization of propene, which yield polymers with low and medium isotacticities, resp. Control expts. indicate that conversion of these complexes to active catalysts involves degradation of their strained ligand frameworks; intact 4A and 4B do not appear to give rise to catalytic activity.
- => s 137 L3 L5
- => s 15 not 14
- L6 2 L5 NOT L4
- => d 1-2 bib abs
- ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 2002:943782 CAPLUS
- DN 138:255545
- TΙ A measure of metallocene catalyst shape asymmetry
- AU Siedle, A. R.; Theissen, Kristin M.; Stevens, John
- CS Corporate Research Laboratories, 3M, St. Paul, MN, 55144-1000, USA
- SO Journal of Molecular Catalysis A: Chemical (2003), 191(2), 167-175 CODEN: JMCCF2; ISSN: 1381-1169
- Elsevier Science B.V. PB
- DT Journal
- LA

RE.CNT 46

English AB An asymmetry parameter (AP) is used as a continuous, pos., metrical shape descriptor and applied to ansa-bridged metallocene catalysts of the type [(ligand 1)-bridge-(ligand 2)]MX2 where ligands 1 and 2 are variously substituted cyclopentadienyl, indenyl or fluorenyl groups connected by, e.g. SiMe2 or C2H4; and where M is Ti, Zr or Hf and X, a halogen or alkyl group. It is the ratio of the van der Waals surface area of the larger ligand divided by that of the smaller. A series of syndioregulating catalysts was used to polymerize propylene. As the catalyst AP increases, the polypropylenes produced have successively higher syndiotacticity. A simple, arithmetic formula for calculating APs of new catalysts is presented.

THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 2002:488261 CAPLUS
- DN 137:47618
- TI Activator for metallocene catalyst system and its use in a polymerization process
- IN Holtcamp, Matthew W.
- PA Univation Technologies, LLC, USA
- SO U.S. Pat. Appl. Publ., 16 pp.
- CODEN: USXXCO
- DT Patent
- LA English

FAN.CNT 2																			
	PATENT NO.							DATE			APPLICATION NO.								
PT							20020627												
PI	0.5	3 20020082369 3 6632770			A1 20020					05	2000-	/4/0	21		20001222				
																20011127			
								CA 2001-2432722											
		2002051884									WO	2001-	0544	434		2001112/			
	WO) 2002051884 W: AE, AG, AL,																	
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										AU 2002-236494									
	EP	1358227																	
		R:										, IT,	LI,	LU,	NL,	SE,	MC,	PT,	
												, TR				_			
	BR	2001016790				A		20040615			BR 2001-16790					20011127			
	JP	2004	5211	65		T	T 20040715				JP 2002-552974					20011127			
	CN	1630	667			A	20050622				CN 2001-822450					20011127			
											US 2002-304032					20021125			
PRAI	AI US 2000-747821 A																		
	WO 2001-US44434 W					W		2001	1127										

OS MARPAT 137 47618

AB A catalyst system for the polymerization of olefin(s) comprises an activator composition having a siloxane moiety represented by:

composition naving a siloxane molety represented by: $[LH]+[N[\Omega]-(OSiRZO)\times M[\Omega]-[LH]+ or [LH]+[M[\Omega]-(OSiRZO)\times R wherein L is an neutral Lewis base; [LH]+ is a Bronsted acid; n is 3 or 4; x is a posinteger; [M[\Omega]- is a non-coordinating anion; M is a Group 13 element; and each R is independently selected from the group consisting of a monoanionic ligand, hydrogen, an hydroxyl group, an alkyl, and combinations thereof. The invention also provides a new supported catalyst activator composition where the siloxane moiety reacts with an alkylaluminum bonded to a silica support. The invention also provides for methods of making the activator composit, polymerization catalyst systems including the activator compns. and processes for polymerizing olefin(s) utilizing same. The activator$

[(C6H5)(CH3)2NH]2[[(C6F5)3BC6F4OSi(CH3)2OSi(CH3)2]2-O-] was prepared and used with (1,3-BuMeCp)2ZrMe2 in polymerization of ethylene and 1-hexene.

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 26.24	212.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.74	-5.74

STN INTERNATIONAL LOGOFF AT 16:25:27 ON 07 JUL 2009